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PATENT

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In reapplication of: Chen et al.

Application No. 10/017,694

Filed: December 14, 2001 Confirmation No. 5690

Confirmation No. 3090

For: QUALITY AND RATE CONTROL

STRATEGY FOR DIGITAL AUDIO

Examiner: Donald Storm

Art Unit: 2631

Attorney Reference No. 3382-61340-01

#### **CERTIFICATE OF MAILING**

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

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### INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 C.F.R. § 1.97(b)(3)

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Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language documents. Applicants respectfully request that these documents be listed as references cited on the issued patent.

Copies of United States patents and United States published patent applications do not have to be provided to the Patent Office (37 C.F.R. 1.98(a)(2)(ii)). Copies of unpublished U.S. applications do not have to be provided, as long as the application is available on PAIR, as this requirement of 37 C.F.R. § 1.98(a)(2)(iii) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on October 19, 2004 (1287 OG 163). Applicants will provide copies of such patents or applications upon request.

Applicants filed this Information Disclosure Statement ("IDS") before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS.

However, if the Patent Office determines that a fee is required for Applicants to file this IDS, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A duplicate copy of this Information Disclosure Statement is enclosed.

The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

Respectfully submitted,

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Docketing

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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First Named Inventor	Chen	
Art Unit	2631	
Examiner Name	Donald Storm	

#### **U.S. PATENT DOCUMENTS**

Copies of U.S. Patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
		4,051,470	9.27.1977	Esteban et al.
		5,457,495	10.10.1995	Hartung
		5,467,134	11.14.1995	Laney et al.
		5,579,430	11.26.1996	Grill et al.
		5,742,735	4.21.1998	Eberlein et al.
		5,819,215	10.6.1998	Dobson et al.
		5,835,149	11.10.1998	Astle
		6,029,126	2.22.2000	Malvar
		6,111,914	8.29.2000	Bist
		6,182,034	1.30.2001	Malvar
		6,370,502	4.9.2002	Wu et al.
		6,574,593	6.3.2003	Gao et al.
		US-2002-0143556-A1	10.03.2002	Kadatch

EXAMINER	DATE
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Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS		
•		Advanced Television Systems Committee, "ATSC Standard: Digital Audio Compression (AC-3), Revision A," pp. 1-140 (August 2001).		
		Baron et al., "Coding the Audio Signal," Digital Image and Audio Communications, pp. 101-128, (1998).		
		Cheung et al., "A Comparison of Scalar Quantization Strategies for Noisy Data Channel Data Transmission," <i>IEEE Transactions on Communications</i> , Vol. 43, No. 2/3/4, pp. 738-742 (April 1995).		
		Crisafulli et al., "Adaptive Quantization: Solution via Nonadaptive Linear Control," <i>IEEE Transactions on Communications</i> , Vol. 41, pp. 741-748 (May 1993).		
		Dalgic et al., "Characterization of Quality and Traffic for Various Video Encoding Schemes and Various Encoder Control Schemes," Technical Report No. CSL-TR-96-701 (August 1996).		
		Gibson et al., "Quantization," Digital Compression for Multimedia, Chapter 4, pp. 113-138 (1998).		
		Gibson et al., "Frequency Domain Speech and Audio Coding Standards," Digital Compression for Multimedia, Chapter 8, pp. 263-290 (1998).		
		Gibson et al., "MPEG Audio," Digital Compression for Multimedia, Chapter 11.4, pp. 398-402 (1998).		
		Gibson et al., "More MPEG," Digital Compression for Multimedia, Chapter 11.6.2-11.6.4, pp. 415-416 (1998).		
		ISO/IEC 13818-7, "Information Technology-Generic Coding of Moving Pictures and Associated Audio Information," Part 7: Advanced Audio Coding (AAC), pp. i-iv, 1-145 (1997).		
		ISO/IEC 13818-7, Technical Corrigendum 1, "Information Technology-Generic Coding of Moving Pictures and Associated Audio Information," Part 7: Advanced Audio Coding (AAC), Technical Corrigendum, pp. 1-22 (1997).		
		ISO, "MPEG-4 Video Verification Model version 18.0," ISO/IEC JTC1/SC29/WG11 N3908, Pisa, pp. 1-10, 299-311 (January 2001).		
		Jafarkhani, H., et al. "Entropy-Constrained Successively Refinable Scalar Quantization," <i>IEEE Data Compression Conference</i> , pp. 337-346 (1997).		

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•		Jayant et al., "Digital Coding of Waveforms, Principles and Applications to Speech and Video," Prentice Hall, pp. 428-445 (1984).			
•		Naveen et al., "Subband Finite State Scalar Quantization," <i>IEEE Transactions on Image Processing</i> , Vol. 5, No. 1, pp. 150-155 (January 1996).			
		Ortega et al., "Optimal Buffer-Constrained Source Quantization and Fast Approximation," <i>IEEE</i> , pp. 192-195 (1992)			
		Ortega et al., "Adaptive Scalar Quantization Without Side Information," <i>IEEE Transactions on Image Processing</i> , Vol. 6, No. 5, pp. 665-676 (May 1997).			
		Ramchandran et al., "Bit Allocation for Dependent Quantization with Applications to MPEG Video Coders," <i>IEEE</i> , pp. v-381 - v-384 (1993)			
		Ratnakar et al., "RD-OPT: An Efficient Algorithm for Optimization DCT Quantization Tables," 11 pp.			
		Sidiropoulos, "Optimal Adaptive Scalar Quantization and Image Compression," <i>ICIP</i> , pp. 574-578, (1998).			
	:	Sullivan, "Optimal Entropy Constrained Scalar Quantization for Exponential and Laplacian Random Variables," <i>ICASSP</i> , pp. V-265 - V-268 (1994).			
		Trushkin, "On the Design on an Optimal Quantizer," <i>IEEE Transactions on Information Theory</i> , Vol. 39, No, 4, pp. 1180-1194 (July 1993).			
		Westerink et al., "Two-pass MPEG-2 Variable-bit-rate Encoding," <i>IBM J. Res. Develop.</i> Vol. 43, No. 4, pp. 471-488 (1999)			
		Wong, "Progressively Adaptive Scalar Quantization," ICIP, pp. 357-360, (1996).			
		Wu et al., "Entropy-Constrained Scalar Quantization and Minimum Entropy with Error Bound by Discrete Wavelet Transforms in Image Compression," <i>IEEE Transactions on Image Processing</i> , Vol. 48, No. 4, pp. 1133-1143 (April 2000).			
		Wu et al., "Quantizer Monotonicities and Globally Optimally Scalar Quantizer Design," <i>IEEE Transactions on Information Theory</i> , Vol. 39, No. 3, pp. 1049-1053 (May 1993).			

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